

## EXHIBIT A

### In the Specification:

#### **Page 16-17, paragraph 3, lines 2 & 6:**

One embodiment of the present invention implements a client viewport using graphically based X [Windows] WINDOWS<sup>TM</sup>, another embodiment implement a client viewport solely with text in standard ASCII (American Standard Characters for Information Interchange) and yet another embodiment implements a client viewport for the NEWTON personal digital assistant (PDA). The X [Windows] WINDOWS<sup>TM</sup> viewport provides the full range of functionalities including picture and movie display. In contrast the text-only viewport has a mail-like interface although all the basic operations are available. Also, because the NEWTON PDA lacks substantial internal memory and relies on slow external communications, that is low bandwidth, a minimal stream-access method is provided.

#### **Page 17, paragraph 2, line 1:**

The X [Windows] WINDOWS<sup>TM</sup> viewport embodiment is shown in Fig. 1. The interface is based on a visual representation of the stream metaphor 5. Users can slide the mouse pointer 10 over the document representations to "glance" at each document, or use the scroll bar 20 in the lower left-hand corner to move through time, either into the past or into the future portion of the stream.

#### **Page 18, paragraph 1, line 1:**

The X [Windows] WINDOWS<sup>TM</sup> interface prominently displays the basic operations, that is, New 30, Clone 40, Xfer 50 (that is, transfer), Find 60, and Summarize 70 as buttons and/or menus. As discussed previously the New button creates a new document and adds the document to the stream at the "present" timepoint. The Clone button duplicates an existing document and places the copy in the stream. The Xfer button first prompts the user for one or more mail addresses and then forwards the selected document. The find operation is supported through a text entry box 60 that allows the user to enter a boolean search query which results in a new substream being created and displayed. The summarize menu 70

generates a new document which displays information from documents in a stream in a desired format, for example, a graph.

**Page 18, paragraph 2, line 1:**

The X [Windows] WINDOWS<sup>TM</sup> interface of this document also provides additional buttons. The Print button 80 copies a selected document to a printer where documents may be either printed conventionally or moved to a printer stream. A software agent which can be associated with the stream forwards each new document to an appropriate printer. The Freeze button 90 makes a document read-only.

**Page 38, paragraph 2, line 8:**

Additionally, this document stream operating system can be implemented as an independent operating system with all required subsystems such as: a storage subsystems in software and/or hardware for writing documents to disc drive, tape drives and the like; interrupt handling subsystems; and input/output subsystems. However, the present invention also encompasses implementations which utilize subsystems from other operating systems such as the Disk Operating System (DOS), [WINDOWS] WINDOWS<sup>TM</sup>, and OPERATING SYSTEM 7. In such implementations, the graphic user interface (GUI) of the other operating system can be replaced by the present invention viewports. Alternatively, the present invention can operate as a document stream utility for the other operating system.

C

**In the Claims:**

28. (Amended ) A method of utilizing a document stream operating system that in turn utilizes subsystems from at least one of a [Windows] WINDOWS<sup>TM</sup> operating system and an [Apple] APPLE<sup>TM</sup> operating system, comprising:
- receiving documents from diverse applications in formats that are specific to the respective applications and differ as between at least some of said applications;
  - automatically associating time-based indicators with the documents received in the receiving step from the diverse applications;
  - automatically archiving the received documents;
  - automatically creating glance views that are abbreviated versions of respective ones of said documents;
  - selectively displaying at least some of said documents as a receding, foreshortened stack of partly overlapping documents so that only a part of each of said documents in the displayed stack, after the first document in the stack, is visible to the user ;
  - said displaying further including displaying a cursor or pointer and responding to a user sliding the cursor or pointer over said displayed stack to display the glance view of the document in the stack that is currently touched by the cursor or pointer, without requiring clicking on the document; and
  - utilizing, in said document stream operating system, subsystems from at least one of a [Windows] WINDOWS<sup>TM</sup> operating system and an [Apple] APPLE<sup>TM</sup> operating system for operations including writing documents to storage media, interrupt handling and input/output.
29. (Amended) A method as in claim 28 in which the utilizing step comprises utilizing subsystems from a [Windows] WINDOWS<sup>TM</sup> operating system.

30. (Amended) A method as in claim 28 in which the utilizing step comprises utilizing subsystems from an [Apple] APPLE<sup>TM</sup> operating system.
39. (Amended) A method as in claim 38, including utilizing subsystems from at least one of a [Windows] WINDOWS<sup>TM</sup> operating system and an [Apple] APPLE<sup>TM</sup> operating system for operations including writing documents to storage media and input/output in said archiving and displaying.

C